

## M 7.6, 12 km N of Hinatuan, Philippines

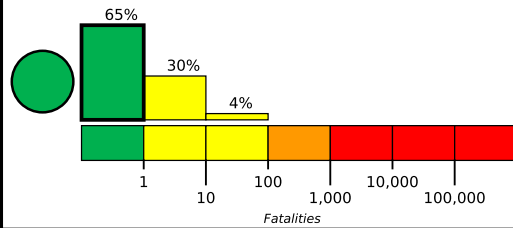
Origin Time: 2023-12-02 14:37:05 UTC (Sat 22:37:05 local)

Location: 8.4870° N 126.3511° E Depth: 50.7 km

FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](https://tsunami.gov)

Created: 3 weeks, 1 day after earthquake

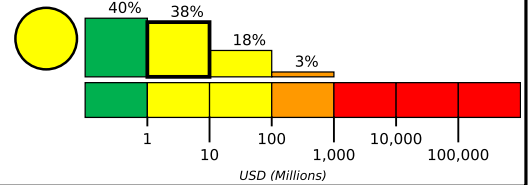
### Estimated Fatalities



Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of Philippines. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.

### Estimated Economic Losses

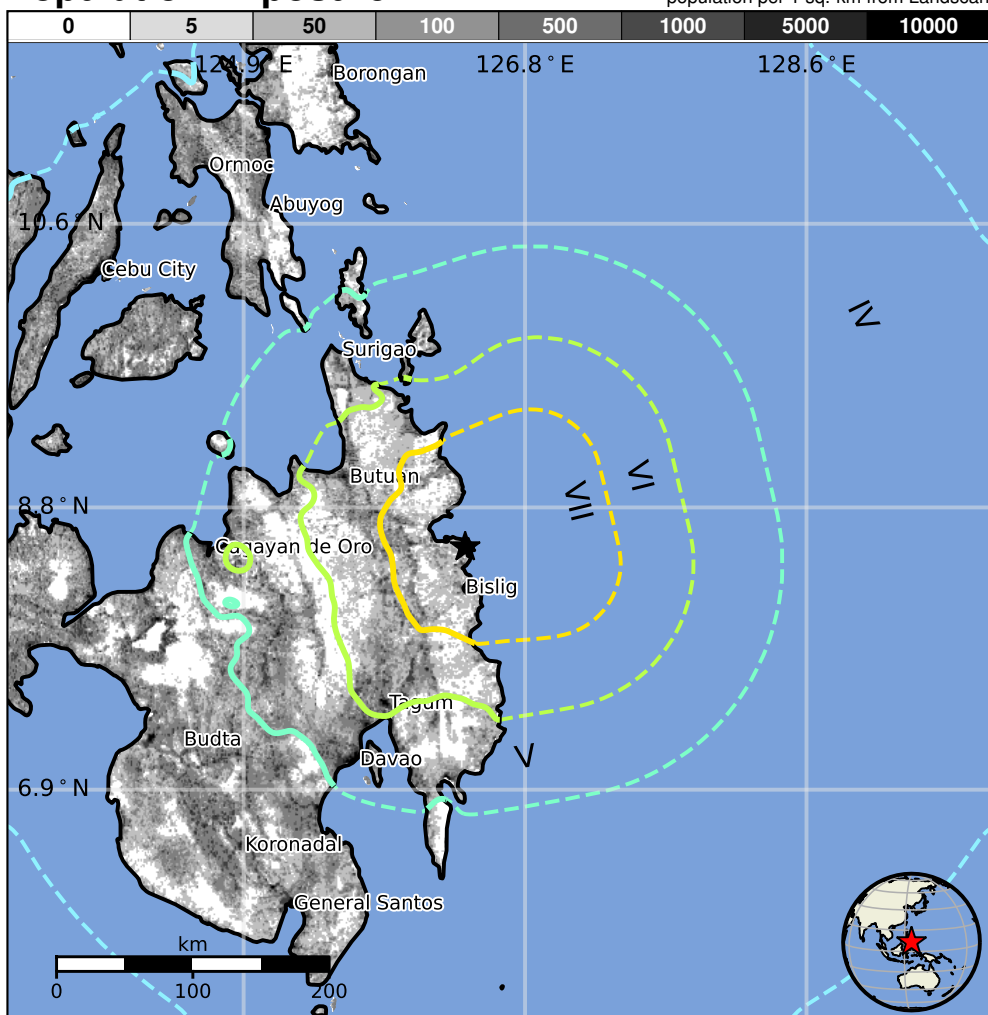


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	144k*	23,433k	6,491k	3,243k	894k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1987-05-23	108	5.7	VII(70k)	1
1990-02-08	236	6.7	VIII(96k)	1
2002-03-05	361	7.5	VIII(12k)	15

Recent earthquakes in this area have caused secondary hazards such as tsunamis and landslides that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Marihatag	4k
VII	Hinatuan	10k
VII	Tidman	3k
VII	Aras-asan	5k
VII	Bacolod	2k
VII	Bigaan	3k
VI	Butuan	310k
V	Davao	1,213k
V	Cagayan de Oro	445k
IV	Cebu City	799k
IV	Pagadian	187k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000lff4#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000lff4